AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

(Currently Amended) A lighting device for a high-pressure discharge lamp comprising:

 a lighting circuit for controlling at least one of voltage and current fed from an external

 power supply to the high-pressure discharge lamp so as to turn on the high-pressure discharge
 lamp;

an igniter circuit for applying start-up high-voltage pulses to the high-pressure discharge lamp;

a turn on detection circuit for detecting the lamp turn on;

a first timer which permits igniter circuit operation for a predetermined period if the highpressure discharge lamp is not turned on;

a second timer which activates the first timer at a predetermined intermittent time interval repetitively; and

a third timer which counts the time elapsed for restarting the high-pressure discharge lamp, and prohibits the operation of the igniter circuit after predetermined restarting time had reached;

a sixth timer which permits igniter circuit operation within said predetermined period of the first timer; and

a seventh timer which activates the sixth timer at a predetermined intermittent time interval repetitively.

2. (Original) The lighting device according to claim 1 further comprising:

a fourth timer which counts a total time in which the high-voltage pulses are applied from the igniter circuit to the high-pressure discharge lamp according to respective operations of the first and second timers; and

a fifth timer which, in place of the second timer, activates the first timer at a predetermined intermittent time interval greater than said time interval of the second timer repetitively, after the total time counted by the fourth timer exceeds a predetermined time.

3. (Canceled)

- 4. (Original) The lighting device according to claim 1, wherein said predetermined period of the first timer and said time interval of the second timer are set in such a manner that output voltage of the lighting circuit in a non-lighted state of the high-pressure discharge lamp has an effective value less than a predetermined value.
- 5. (Currently Amended) The lighting device according to claim 1 [[3]], wherein said predetermined period of the first timer and said time interval of the second timer are set in such a manner as to prevent overload beyond a maximum rating of a circuit component constituting the lighting circuit, the igniter circuit, the turn on detection circuit or the first to seventh timers when the high-pressure discharge lamp is not turned on.

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- 6. (Original) The lighting device according to claim 5, wherein the maximum rating of the circuit component is at least one of a temperature rating, a current rating, a voltage rating and a power rating of said circuit component.
- 7. (Original) The lighting device according to claim 1, wherein each of the first and second timers consists of an automatic reset-type temperature responsive switch adapted to open and close contact in response to temperature.
- 8. (Original) The lighting device according to claim 1, wherein said predetermined period of the first timer just after initiation of the operation of the igniter circuit is set at a relatively large value.
- 9. (Original) The lighting device according to claim 8, wherein said predetermined period of the first timer just after initiation of the operation of the igniter circuit is set at a time sufficient for start-up of the high-pressure discharge lamp.
- 10. (Original) The lighting device according to claim 1, wherein said predetermined period of the first timer and said time interval of the second timer are set in such a manner as to prevent an intra-outer-tube discharge from occurring in the high-pressure discharge lamp.
- 11. (Original) The lighting device according to claim 1, wherein the lighting circuit consists of a copper-iron ballast.

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- 12. (Original) The lighting device according to claim 11, wherein the igniter circuit outputs a single high-voltage pulse around a peak of an AC power supply voltage fed from the external power supply to the lighting circuit.
- 13. (Original) The lighting device according to claim 1, wherein the lighting circuit consists of an electronic ballast.
- 14. (Original) The lighting device according to claim 13, wherein the lighting circuit outputs a rectangular-wave alternating current, and the igniter circuit superimposes the start-up high-voltage pulses on an output rectangular-wave voltage from the lighting circuit.
- 15. (Original) The lighting device according to claim 14, wherein the igniter circuit superimposes a single one of the high-voltage pulses one time per one-half cycle of the output rectangular-wave voltage.
- 16. (Currently Amended) The lighting device according to claim 15, wherein, given that the one-half cycle of the output rectangular-wave voltage is divided into an initial-half stage and a last-half stage, the igniter circuit superimposes the single high-voltage pulse in the initial-half stage.
- 17. (Original) The lighting device according to claim 16, wherein the igniter circuit superimposes the single high-voltage pulse just after a polarity of the output rectangular-wave voltage is reversed.

- 18. (Original) The lighting device according to claim 13, wherein the igniter circuit generates the high-voltage pulses through the use of a resonance voltage.
- 19. (Currently Amended) The lighting device according to claim 1, which is designed such that a power is supplied from the lighting circuit to the high-pressure discharge lamp through a cable which comprises a plurality of electric wires each composed of a conductor having a thickness of 1 mm or less and an insulator covering the conductor, and a sheath having an insulting performance and covering the electric wires, wherein:

the lighting circuit outputs a rectangular-wave voltage alternating at a low frequency of several ten to several hundred Hz; and

the igniter circuit superimposes a high-voltage pulse of 3 to 5 kV on the rectangular-wave output voltage from the lighting circuit.

- 20. (Original) The lighting device according to claim 1, wherein:
 the high-pressure discharge lamp has a rated lamp power of 35 to 75 W;
 said predetermined period of the first timer is set in the range of 3 to 5 seconds; and said time interval of the second timer is set in the range of 1 to 3 seconds.
- 21. (Original) The lighting device according to claim 1, wherein:
 the high-pressure discharge lamp has a rated lamp power of 150 W;
 said predetermined period of the first timer is set in the range of 0.5 to 1.5 seconds; and said time interval of the second timer is set in the range of 1 to 3 seconds.

22. (Original) A lighting apparatus comprising:

the lighting device according to claim 1;

a case for housing the lighting circuit and the igniter circuit;

a socket adapted to mechanically connected to a base of the high-pressure discharge lamp;

a lamp fitting including a reflector for reflecting light to be emitted from the highpressure discharge lamp; and

a cable including a plurality of electric wires each covered by an insulator, and a sheath having an insulting performance and covering the electric wires,

wherein the lighting circuit and the igniter circuit are electrically connected to the socket through said cable.

23. (New) A lighting device for a high-pressure discharge lamp comprising:

a lighting circuit for controlling at least one of voltage and current fed from an external power supply to the high-pressure discharge lamp so as to turn on the high-pressure discharge lamp;

an igniter circuit for applying start-up high-voltage pulses to the high-pressure discharge lamp;

a turn on detection circuit for detecting the lamp turn on;

a first timer which permits igniter circuit operation for a predetermined period if the highpressure discharge lamp is not turned on;

a second timer which activates the first timer at a predetermined intermittent time interval repetitively; and

a third timer which counts the time elapsed for restarting the high-pressure discharge lamp, and prohibits the operation of the igniter circuit after predetermined restarting time had reached;

wherein said predetermined period of the first timer and said time interval of the second timer are set in such a manner that output voltage of the lighting circuit in a non-lighted state of the high-pressure discharge lamp has an effective value less than a predetermined value.

24. (New) A lighting device for a high-pressure discharge lamp comprising:

a lighting circuit for controlling at least one of voltage and current fed from an external power supply to the high-pressure discharge lamp so as to turn on the high-pressure discharge lamp;

an igniter circuit for applying start-up high-voltage pulses to the high-pressure discharge lamp;

a turn on detection circuit for detecting the lamp turn on;

a first timer which permits igniter circuit operation for a predetermined period if the highpressure discharge lamp is not turned on;

a second timer which activates the first timer at a predetermined intermittent time interval repetitively; and

a third timer which counts the time elapsed for restarting the high-pressure discharge lamp, and prohibits the operation of the igniter circuit after predetermined restarting time had reached;

wherein each of the first and second timers consists of an automatic reset-type temperature responsive switch adapted to open and close contact in response to temperature.